## Textbook Alignment to the Utah Core – Pre-Algebra

This alignment has been completed using an "Independent Alignment Vendor" from the USOE approved list
( <u>www.schools.utah.gov/curr/imc/indvendor.html.</u> ) Yes <u>X</u> No
Name of Company and Individual Conducting Alignment:Eisemann Communication/Rebecca Nelson
A "Credential Sheet" has been completed on the above company/evaluator and is (Please check one of the following):
X On record with the USOE.
☐ The "Credential Sheet" is attached to this alignment.
Instructional Materials Evaluation Criteria (name and grade of the core document used to align): Pre-Algebra Core Curriculum
Title: Holt Pre-Algebra © 2008 ISBN#: 0-03-093468-0
Publisher: Holt, Rinehart and Winston
Overall percentage of coverage in the Student Edition (SE) and Teacher Edition (TE) of the Utah State Core Curriculum: 100 %
Overall percentage of coverage in ancillary materials of the Utah Core Curriculum:%

Percentage of coverage in the student and teacher edition for Standard I: 100 %		Percentage of coverage not in studer the <i>ancillary material</i> for Standard I		covered in
Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary  Material  (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
•	tive 1.1: Compute fluently with understanding and reasonable estimates with rational numbers.			
a.	Compute fluently using all four operations with integers, and explain why the corresponding algorithms work.	SE 60-63, 64-67, 68-71, 82, 104, 105, 107		
b.	Compute fluently using all four operations with rational numbers, including negative fractions and decimals, and explain why the corresponding algorithms work.	SE 60-63, 64-67, 68-71, 82, 104, 105, 107, 117-120, 121-125, 126-130, 131-134, 144, 166, 167, 169		
c.	Check the reasonableness of results using estimation.	SE 83, 150-153, 168, 420-423, 440, 655		
numb	etive 1.2: Analyze relationships among rational ers, including negative rational numbers, and tions involving these numbers.			
a.	Order rational numbers in various forms, including scientific notation (positive and negative exponents), and place numbers on a number line.	SE 780 SE* 99		
b.	Predict the effect of operating with fractions, decimals, percents, and integers as an increase or a decrease of the original value.	SE* 83, 420-423, 655		

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c.	Recognize and use the identity properties of addition and multiplication, the multiplicative property of zero, the commutative and associative properties of addition and multiplication, and the distributive property of multiplication over addition.	SE 29-31, 779		
d.	Recognize and use the inverse operations of adding and subtracting a fixed number, multiplying and dividing by a fixed number, and computing squares of whole numbers and taking square roots of perfect squares.	SE 13-17, 18-22, 23-27, 53, 56, 146-149, 150-153, 168		
•	tive 1.3: Solve problems involving rational numbers addition, subtraction, multiplication, and division.			
a.	Recognize the absolute value of a rational number as its distance from zero.	SE 60-63, 781		
b.	Simplify numerical expressions, including those with whole number exponents and absolute values, using the order of operations.	SE 4, 69-71, 84-87, 778		
c.	Solve problems involving rational numbers, percents, and proportions.	SE 117-120, 121-125, 126-130, 131-134, 166, 167, 169, 342-345, 346-349, 356-359, 416-419, 420-423, 424-427, 428-431, 439, 440, 441		

STANI	STANDARD II: Students will use proportion and similarity to solve problems.				
	ntage of coverage in the <i>student and teacher edition</i> for ard II:100%	Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard II:%			
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•	tive 2.1: Model and illustrate meanings of ratios, its, and decimals.				
a.	Compare ratios to determine if they are equivalent.	SE 342-345, 392			
b.	Compare ratios using the unit rate.	SE 347-349, 393			
c.	Represent percents as ratios based on 100 and decimals as ratios based on powers of ten.	SE 400, 402, 438			
d.	Graph proportional relationships and identify the unit rate as the slope of the related line.	SE 545-549, 550-553, 562-566, 583, 585			
_	tive 2.2: Solve a wide variety of problems using ratios roportional reasoning.				
a.	Set up and solve problems involving proportional reasoning using variables.	SE 356-359, 393, 395			
b.	Solve percent problems, including problems involving discounts, interest, taxes, tips, and percent increase or decrease.	SE 416-419, 420-423, 424-427, 428-431, 432-433, 439, 440, 441			
c.	Solve ratio and rate problems using informal methods.	SE 342-345, 346-349, 744			

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Objective 2.3: Recognize similar polygons and use properties of similar triangles to solve problems and define the slope of a line.				
a.	Define similar polygons as polygons with corresponding angles congruent and corresponding sides that are proportional.	SE 368-370		
b.	Identify pairs of similar triangles using two pairs of congruent angles, or two pairs of proportional sides with congruent included angles.	SE 367-371, 394		
c.	Find missing lengths of similar triangles, including inaccessible lengths, using proportions.	SE 369-371		
d.	Define the slope of a line as the ratio of the vertical change to the horizontal change between two points, and show that the slope is constant using similarity of right triangles.	SE 545-549		

Perce	Percentage of coverage in the student and teacher edition for standard III:%  Percentage of coverage in the student and teacher edition for the ancillary material for Standard III:			
Овјес	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
	tive 3.1: Generalize and express patterns using raic expressions.			
a.	Compare representations of a relation using tables, graphs, algebraic symbols, and mathematical rules.	SE 608-612, 613-616, 617-624, 626-627, 628-631, 637, 638, 639		
b.	Describe simple patterns using a mathematical rule or algebraic expression.	SE 92-95, 590-594, 595-599, 600, 601-604, 606, 636, 637, 639		
c.	Create and extend simple numerical and visual patterns.	SE 92-95, 590-594, 595-599, 600, 601-604, 606, 608-612, 613-616, 636, 637, 639		
•	tive 3.2: Evaluate, simplify, and solve algebraic ssions, equations, and inequalities.			
a.	Evaluate algebraic expressions, including those with whole number exponents, when given values for the variable(s).	SE 4-7, 32, 52, 55, 85-87		
b.	Simplify algebraic expressions using the order of operations, algebraic properties, and exponent rules.	SE 28-31, 32, 54, 55		

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c.	Solve single-variable linear equations and inequalities, including those that must be simplified on one side or those with variables on both sides of an equation.	SE 13-17, 18-22, 23-27, 53, 55, 74-77, 78-82, 105, 107, 136-139, 140-144, 167, 168, 169, 498-501, 502-505, 507-512, 514-518, 532, 533, 535		
	tive 3.3: Represent relationships using graphs, tables, ther models.			
a.	Identify approximate rational coordinates when given the graph of a point on a rectangular coordinate system.	SE 38, 40, 55		
b.	Graph ordered pairs of rational numbers on a rectangular coordinate system.	SE 38-41, 54, 55, 245-247, 273		
c.	Graph linear equations using ordered pairs or tables.	SE 540-544, 547-549, 613-616, 637, 639		
d.	Recognize that all first order equations produce linear graphs.	SE 540-544, 613-616		
e.	Model real-world problems using graphs, tables, equations, manipulatives, and pictures, and identify extraneous information.	SE 543, 564, 566, 575, 594, 612, 616		

STANI	STANDARD IV: Students will use algebraic, spatial, and logical reasoning to solve geometry and measurement problems.				
		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard IV:%			
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	tive 4.1: Apply the properties of proportionality of ent units of measure.				
a.	Convert units of measure within the same system.	SE 350-354, 360, 393, 395, 790			
b.	Create and interpret scale drawings and approximate distance on maps using scale factors.	SE 372-375, 376-379, 380-381, 382-385, 394, 395			
c.	Solve problems using scale factors.	SE 368-371, 372-375, 376-379, 380-381, 382-385, 394, 395			
•	tive 4.2: Derive formulas for surface areas and volume ee-dimensional figures.				
a.	Derive formulas for and calculate surface area and volume of right prisms and cylinders using appropriate units.	SE 307-311, 316-319, 336, 337			
b.	Explain that if a scale factor describes how corresponding lengths in two similar objects are related, then the square of the scale factor describes how corresponding areas are related and the cube of the scale factor describes how corresponding volumes are related.	SE 382-385, 394, 395			
c.	Find lengths, areas, and volumes of similar figures, using the scale factor.	SE 372-375, 376-379, 382-385			

Objectives & Indicators		Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Material	Not covered in TE, SE or ancillaries ✓
d.	Select appropriate two- and three-dimensional figures to model real-world objects, and solve a variety of problems involving surface areas and volumes of cylinders and prisms.	SE 307, 309-311, 316-317, 319		
STANI	DARD V: Students will use algebraic, spatial, and logical r	reasoning to solve geometry and meas	urement problems.	
	ntage of coverage in the <i>student and teacher edition</i> for ard V:100%	Percentage of coverage not in stude the ancillary material for Standard		vered in
Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
	etive 5.1 Calculate probabilities of events and compare etical and experimental probability.			
a.	Solve counting problems using the Fundamental Counting Principle.	SE 467-470, 492, 493		
b.	Calculate the probability of an event or sequence of events with and without replacement using models.	SE 446-450, 451-454, 460, 462- 466, 490-, 491, 493		
c.	Recognize that the sum of the probability of an event and the probability of its complement is equal to one.	SE 446, 450		
d.	Make approximate predictions using theoretical probability and proportions.	SE 462-466, 491, 493		
e.	Collect and interpret data to show that as the number of trials increases, experimental probability approaches the theoretical probability.	SE* 453, 455, 456463, 465		

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	tive 5.2: Formulate questions and answer the questions ganizing and analyzing data.			
a.	Formulate questions that can be answered through data collection and analysis.	SE 177, 178		
b.	Determine the 25th and 75th percentiles (first and third quartiles) to obtain information about the spread of data.	SE 188-192, 193		
c.	Graphically summarize data of a single variable using histograms and box-and whisker plots.	SE 189-191, 196-199, 193, 786		
d.	Compute the mean and median of a numerical characteristic and relate these values to the histogram of the data.	SE 184-187, 194, 215, 217		
e.	Use graphical representations and numerical summaries to answer questions and interpret data.	SE 179-183, 184-187, 188-192, 196-199, 200-203, 204-207, 208-209, 215-216, 217		